



alpha concept

DYNACORD

al-pha /ælfə/

n the first letter (A, a) in the
Semite, Greek, Latin alphabet.
Also signifies

..... the one that stands out from the crowd and
dominates its kind.



alpha



Space, Miami, USA



Rain Nightclub, Las Vegas, USA



The Docks, Toronto, Canada

alpha concept - Philosophy

alpha concept by Dynacord is synonymous with high-end audio in clubs and discotheques. alpha concept stands for superior performance and reliability. Installations using alpha concept represent a reference point for the industry by which all others are measured. An alpha project always stands out from the rest. alpha projects are professional audio installations at the highest level. alpha concept marks the standard for outstanding sound reinforcement performance in discotheques.

With the loudspeaker cabinets alpha X-1 and alpha B-3, alpha concept became the reference for the best sound in major clubs. Our customers demands for smaller systems providing the same outstanding sound performance as alpha X-1 and alpha B-3 was the basis for another alpha concept development. Absolute optimal sound dispersion in the near field, the highest SPL and at the same time compact size and superior acoustic abilities were the most important criteria. In combining these high demands, alpha V-1 and alpha B-6 loudspeaker systems again set a new standard within their class. Efficiency, sound quality, radiation, design and reliability at the highest level.

Numerous well-known clubs and discotheques have successfully used alpha concept systems for years. Their outstanding reliability, enormous output power capacity and their truly breathtaking sound have set a new standard for club and discotheque applications. Not forgetting the continuous exchange of ideas from different sound installers and club owners which contributed greatly to the success of the alpha concept. Within three years, alpha concept became the market leader in Germany while several projects across the world set new milestones in the alpha concept history of success.

alpha concept – the most successful sound reinforcement system for clubs and discotheques.

Space, Ibiza, Spain



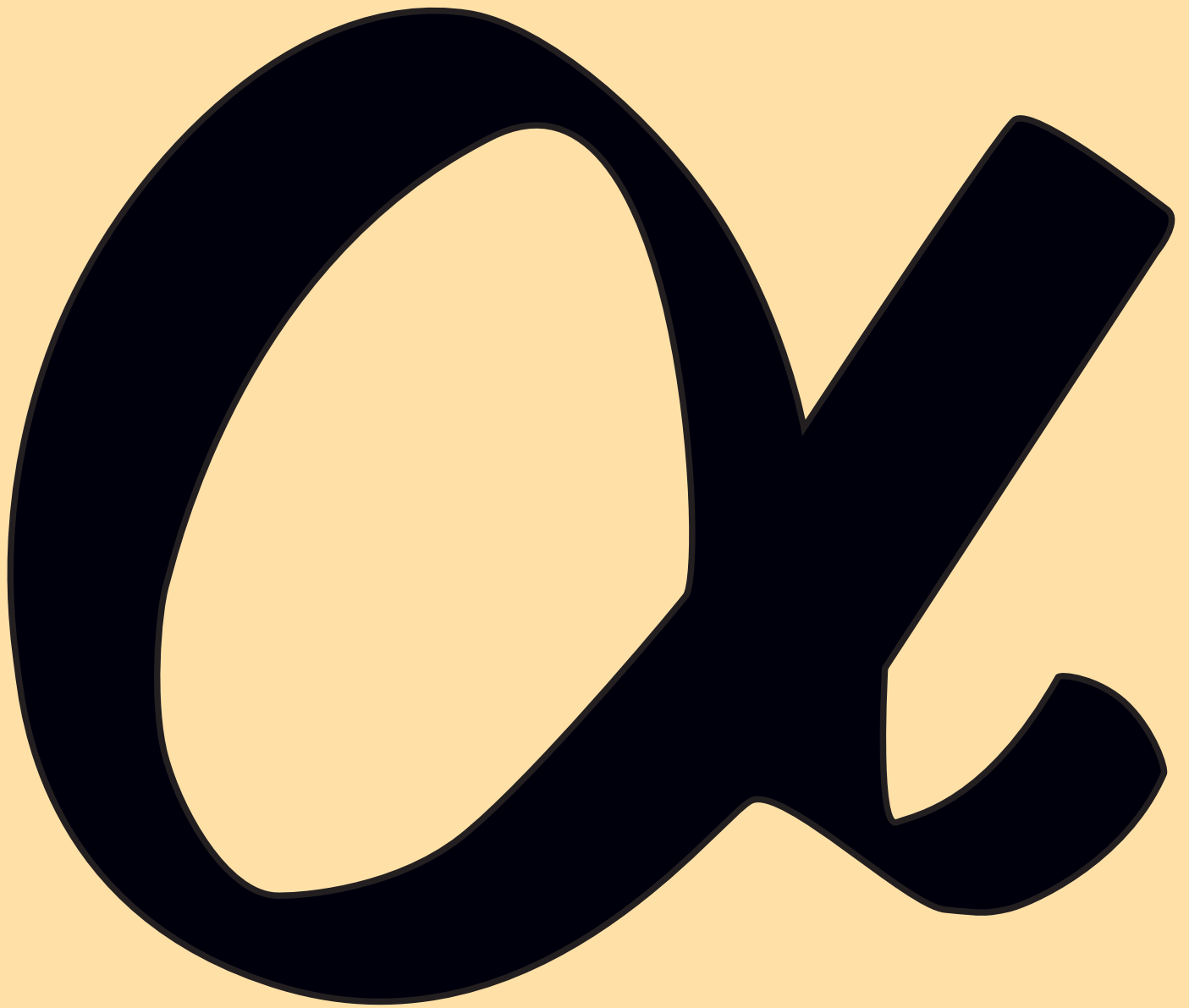
Swan Lake Club, Dongguan, China



Nightflight, Munich, Germany



c o n c e p t




alpha concept - beyond all limits

alpha X-1

The alpha X-1 system is a horn-loaded, active 3-way loudspeaker system. The bass-reflex tuning of the two 15" drivers, coupled with a Constant Directivity horn, provides extremely precise and punchy reproduction of the Lo-Mid frequencies – down to 80 Hz. In the range of 800 Hz to 8 kHz, the truly dynamic and clear reproduction of Mid-Hi frequencies is taken care of by a 2" high-performance drive unit with a True Constant Directivity horn (90° x 40° or 60° x 40°). The brilliant Hi-frequency reproduction is provided by two diffraction or ring radiators (90° or 60° model, respectively). The alpha X-1's trapezoidal shaped cabinet allows convenient arraying of several systems.





alpha X-1

by Dynacord.

Designed for extraordinary performance in sound reinforcement installations.

Maximum efficiency.

Maximum sound quality.

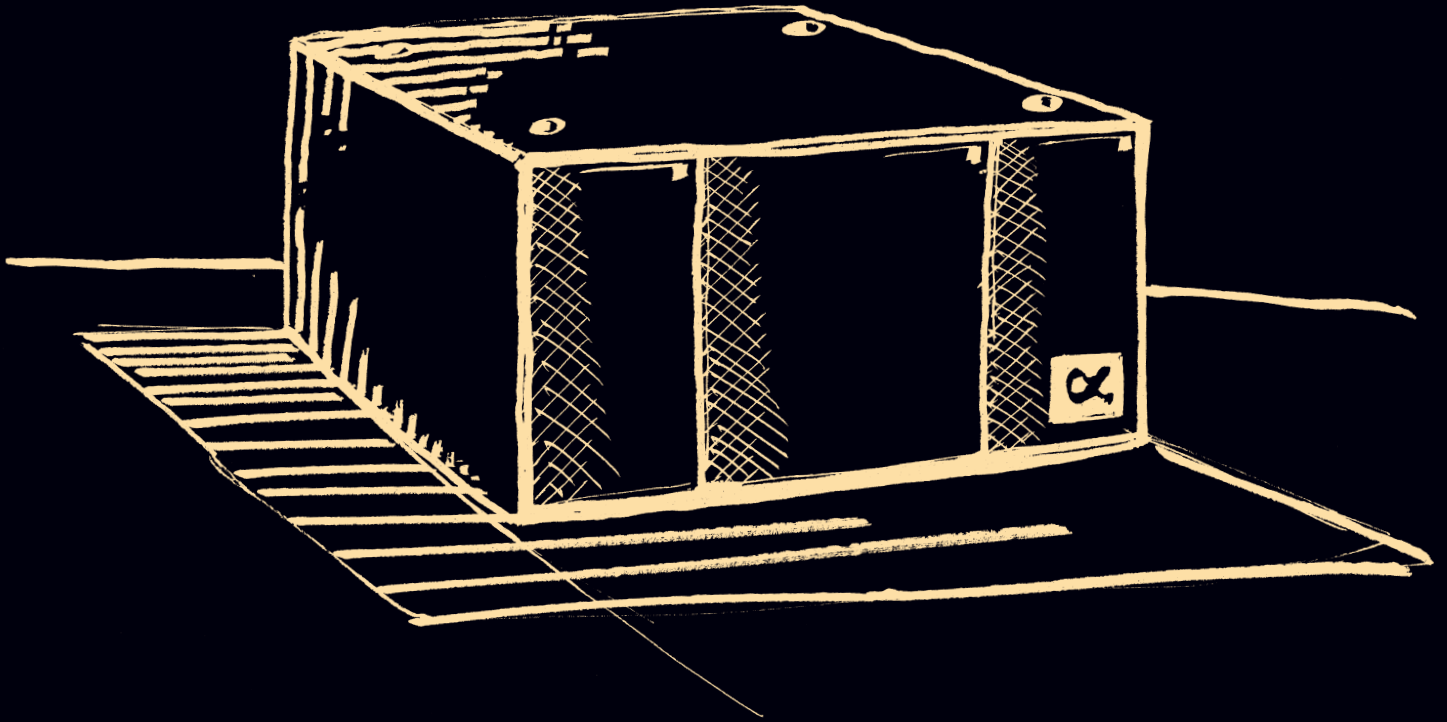
Precisely defined dispersion. Highest reliability.

Color, graphic and surface design are customized

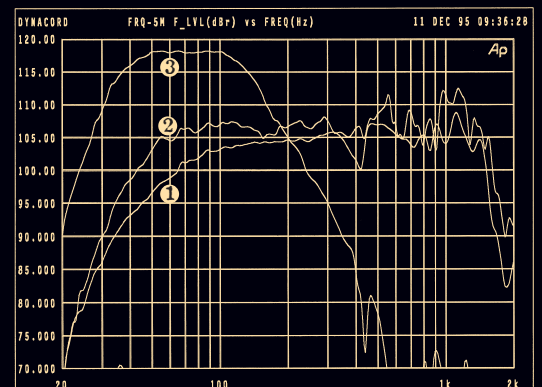
according to customer's specifications.

alpha concept - beyond all limits

alpha B-3



The alpha B-3 system incorporates 2 x 18" PWH – Planar Waveguide™ technology (patented) sub woofers. The patent specification defines "PWH" as Planar Waveguide with a Helmholtz resonator, placed inside the wave guide. The 6 to 7 dB gain in the SPL of low-frequencies results from the relation between the resonance of the waveguide and that of the Helmholtz resonator. The PWH subwoofers' construction additionally limits the cone's excursion, guaranteeing truly faithful impulse reproduction, excellent dynamic capabilities, very low distortion, and continuous reliable operation. alpha B-3 systems provide extraordinary directivity in the low-frequency range down to 35 Hz, combining the advantages of direct-radiating and horn-loaded system principles. The unique PWH-design makes the B-3 system superior to any conventional subwoofer-design.



- ① SD 18 PRO (2 x 18" Baßreflex)*
- ② alpha B-3 (2 x 18" Planar Waveguide Horn)*
- ③ 4 x alpha B-3 (stacked)*

* Ground-Plane-Measurement-Method, measuring distance 5m on axis, measurement calculated to 1m ($U_{KL} = 2,83V$)



alpha B-3

by Dynacord.

Planar Waveguide

Subwoofer. Designed

for extreme sub-sonic

SPL. Sound Pressure

Level – literally: sensi-

ble, impulsive, shatte-

ring.

alpha concept - beyond all limits

alpha V-1

Rotatable Design

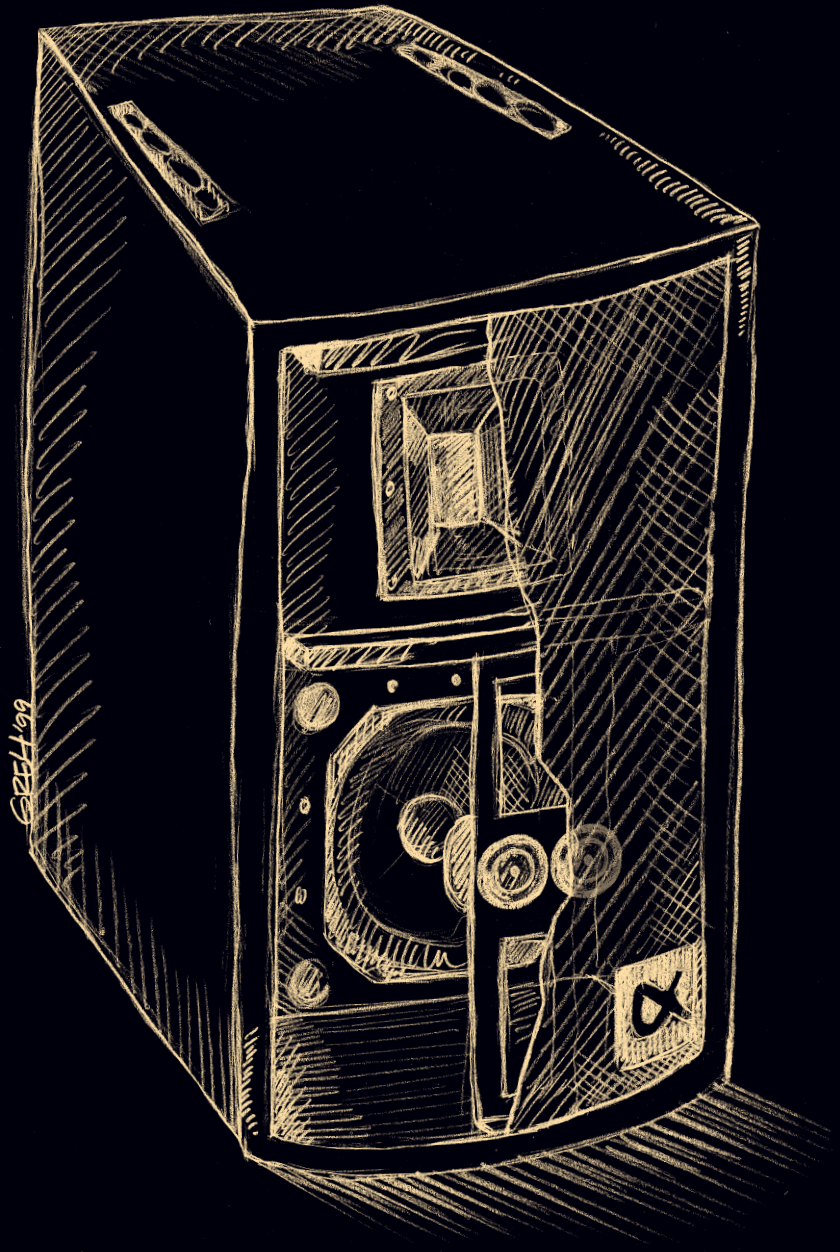
The alpha V-1 System is a compact horn-loaded active 3-way loudspeaker system. A 15" high-performance driver which is mounted in a Conical Waveguide Horn produces maximum SPL providing extremely precise and powerful Lo-Mid reproduction; even below the 100 Hz mark. The 2" compression driver with Constant Directivity Horn (selectable 90 x 40 degrees or 60 x 40 degrees) delivers a crystal-clear, natural Mid-Hi response from 800 Hz on. The brilliant high-frequency reproduction up to and above 20 kHz is taken care by two coaxially designed ring radiators.

The trapezoidal shape of the alpha system allows to easily stack several systems in clusters.

The integrated rigging-system of the alpha V-1 system is truly noticeable. Four optimally located riggingpoints allow the system to be „flown“ vertically or horizontally oriented as well. Even in venues with low ceiling height, installing the alpha V-1 is no problem at all.

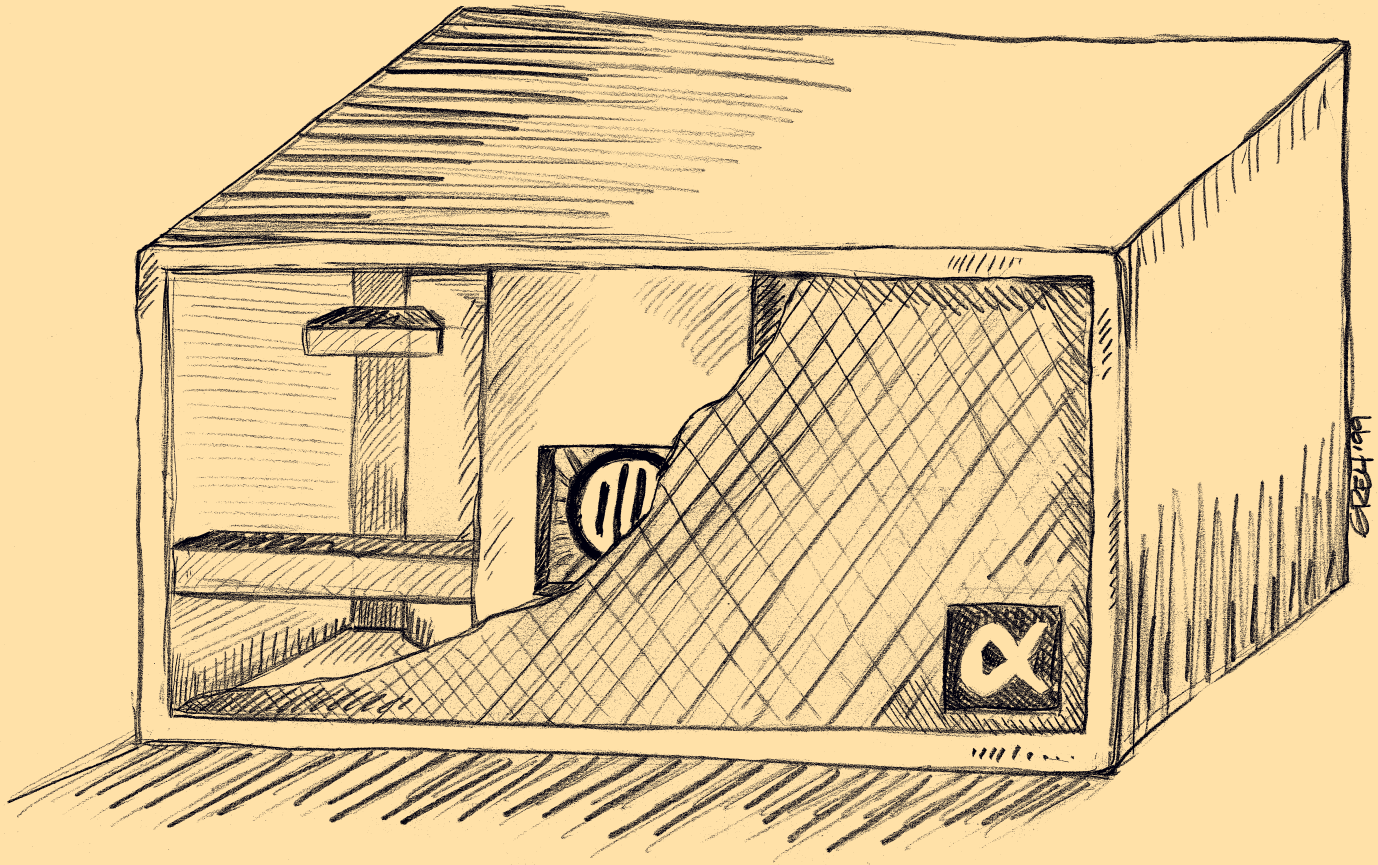
The alpha V-1 system embodies a selection of the finest audio components available and in combination with the most sophisticated technical and acoustical loudspeaker design, offers state-of-the-art audio at its highest level. Without doubt, it's ...

alpha concept by Dynacord



alpha concept -

alpha B-6



The alpha B-6 is a compact, horn-loaded subwoofer system that provides extreme high efficiency (SPL 103 dB, 1W/1m). A 18" high performance driver with a 4" voice coil drives the unit.

The alpha B-6 system features outstanding impulse fidelity and superior dynamic response, providing truly punchy and extremely "dry" low-frequency reproduction.

The alpha B-6 delivers the kick bass that turns you on – in other words ...

alpha concept by Dynacord

beyond all limits

alpha concept - Specifications



alpha X-1



alpha V-1



alpha B-3



alpha B-6

Type	alpha X - 1 / 90	alpha X - 1 / 60
Description	2 x 15", 2", 2 x Tweeter	2 x 15", 2", 2 x Tweeter
Nominal Power Capacity	1000 watts RMS	1000 watts RMS
Program Power Capacity (Cont. Prg.)	2000 watts	2000 watts
Peak Power Capacity	4000 watts	4000 watts
Impedance (nom.)	4 ohms	4 ohms
Nominal SPL (1W/1m)	106 dB	106 dB
Max. SPL (1m, calculated)	135 dB	135 dB
Peak SPL (1m, calculated)	141 dB	141 dB
Frequency Response (-10 dB)	65 Hz – 23 kHz	65 Hz – 23 kHz
Coverage	90° x 40°	60° x 40°
Components	Hi Mid Lo	2 x HFR 2508 DH 7 Driver HP 940 Horn 2 x EVX 155
Operation Modes	3 way active, 2 way active switchable, passive 3 rd Order Highpass-Filter	3 way active, 2 way active switchable, passive 3 rd Order Highpass-Filter
Protection Circuits	Thermal und dynamic Speaker Protection	Thermal und dynamic Speaker Protection
Crossover Frequencies	System Controller Preset	System Controller Preset
Connections	1 x 8 pol. Speakon	1 x 8 pol. Speakon
Dimensions (WxHxD)	763 x 1440 x 720 mm	763 x 1440 x 720 mm
Weight net	137 kg (302 lbs.)	137 kg (302 lbs.)
Warranty	3 Years	3 Years
Accessories (included)	3 x Double Stud Fitting	3 x Double Stud Fitting
Specials	Trapezoidal Design	Trapezoidal Design

Type	alpha V - 1 / 90	alpha V - 1 / 60
Description	15", 2", 2 x Tweeter	15", 2", 2 x Tweeter
Nominal Power Capacity	500 watts RMS	500 watts RMS
Program Power Capacity (Cont. Prg.)	1000 watts	1000 watts
Peak Power Capacity	2000 watts	2000 watts
Impedance (nom.)	8 ohms	8 ohms
Nominal SPL (1W/1m)	102 dB	102 dB
Max. SPL (1m, calculated)	131 dB	131 dB
Peak SPL (1m, calculated)	137 dB	137 dB
Frequency Response (-10 dB)	70 Hz – 23 kHz	70 Hz – 23 kHz
Coverage	90° x 40°	60° x 40°
Components	Hi Mid Lo	2 x HFR 2505 DH 7 Driver HP 94 S Horn EVX 155
Operation Modes	3 way active, 2 way active switchable, passive 3 rd Order Highpass-Filter	3 way active, 2 way active switchable, passive 3 rd Order Highpass-Filter
Protection Circuits	Thermal und dynamic Speaker Protection	Thermal und dynamic Speaker Protection
Crossover Frequencies	System Controller Preset	System Controller Preset
Connections	2 x 8 pol. Speakon	2 x 8 pol. Speakon
Dimensions (WxHxD)	600 x 961 x 540 mm	600 x 961 x 540 mm
Weight net	56 kg (123.5 lbs.)	56 kg (123.5 lbs.)
Warranty	3 Years	3 Years
Accessories (included)	3 x Double Stud Fitting	3 x Double Stud Fitting
Specials	Trapezoidal Design	Trapezoidal Design

Type	alpha B - 3	alpha B - 6
Description	2 x 18" PWH Horn	18" Full W Horn
Nominal Power Capacity	1000 watts RMS	500 watts RMS
Program Power Capacity (Cont. Prg.)	2000 watts	1000 watts
Peak Power Capacity	4000 watts	2000 watts
Impedance (nom.)	4 ohms	8 ohms
Nominal SPL (1W/1m)	103 dB	103 dB
Max. SPL (1m, calculated)	133 dB	133 dB
Peak SPL (1m, calculated)	139 dB	139 dB
Frequency Response (-10 dB)	35 Hz – 1,7 kHz	48 Hz – 820 Hz
Components	Sub	2 x EVX 180 B OEM EVX 180 B OEM
Protection Circuits	Thermal und dynamic Speaker Protection	Thermal und dynamic Speaker Protection
Crossover Frequencies	System Controller Preset	System Controller Preset
Connections	2 x 4 pol. Speakon	2 x 4 pol. Speakon
Dimensions (WxHxD)	1200 x 610* x 1220** mm	1200 x 611* x 815** mm
Weight	120 kg (264.6 lbs.)	92 kg (202.9 lbs.)
Warranty	3 Years	3 Years
Specials	Connector Panel Coverage	Connector Panel Coverage

alpha concept - System Thinking

alpha concept, the highest standard in professional club sound reinforcement, needs to be regarded as a system. alpha concept is far more than just another speaker cabinet. alpha concept is an entire system consisting of mixer, digital controllers, power amps, and loudspeakers. All alpha concept system components are designed and manufactured in Germany. alpha concept is a perfectly homogeneous system of precisely matched components produced by a single manufacturer. By only following this philosophy can the extraordinary audio performance and reliability of alpha concept by Dynacord be achieved.

Dynacord is one of the very few companies worldwide that designs, manufactures, and combines all components of a professional audio system. Dynacord has made the system approach its company philosophy. Over 50 years of experience in research, development and projecting guarantees products that meet the highest quality standards.

The M 1 has become the established mixer in major German clubs for years now. Until today, its perfect set of features, the audio quality and outstanding operational reliability are unprecedented and unrivalled.

For years now, Dynacord Linear Precision™ power amps have proven their qualities in demanding club installations and the most strenuous of touring applications all over the world. They are best known for their reliable operation, offering excellent transmission, comprehensive protection circuitry, and efficient limiters. Dynacord Linear Precision™ power amps are the perfect high performance power amplifier and therefore ideally suited for driving alpha concept systems, guaranteeing a powerful, dynamic sound.

Controlled by Dynacord's advanced digital controllers, alpha concept power amps and speaker systems marry perfectly. The DSP 244 offers a dynamic range of more than 115 dB, which makes it one of the world's best digital controllers. Remotely controlled and being able to recall settings at the push of a button, which perfectly match differing musical styles, is just as easy as remotely editing the configuration of an alpha concept system in real-time. Dynacord's own designed software program CrossMax allows real-time editing of all parameters including phase, based on the original measurement data of alpha concept cabinets and amplifiers.

The members of the alpha concept group work closely together with our sound and acoustic engineers in project planning, the realization of alpha projects, and acoustically optimising each alpha system, which results in an overall system of superior quality tailored to meet custom demands.

Base your success on the cooperation with one of the strongest partners worldwide.

alpha concept - beyond all limits

alpha concept - Custom Designed

Realizing creativity, according to the maxim "not only delivering the best in technology and performance, but also providing enclosures that are aesthetically matched with the surrounding environment", alpha systems cabinets, colour-finish, and surface can be custom designed.

Custom Designed - alpha concept by DYNACORD.



alpha concept - Distribution



Being one of the world's leading companies in the professional audio market, Dynacord offers a world-wide distribution network. alpha concept by Dynacord has its headquarter in Straubing, Germany, from where an exhaustive network of specialized dealers, distributors and subsidiaries span the globe. If you don't know the name and address of the contact person nearest to your location, please visit our Internet web page <http://www.alphaconcept-dynacord.com> for further information or contact us via telephone +49(0)9421/706-219 or fax +49(0)9421/706-344. You can also send an e-mail to alphaconcept@de.telex.com.

We are looking forward to hearing from you.

alpha concept - References

A excerpt from our alpha reference list. You can find a complete list on our homepage

<http://www.alphaconcept-dynacord.com>

Germany:

Nachtarena, Bielefeld Nightflight, München
Nachtresidenz, Düsseldorf Tarm - Der Club, Hattingen
4004, München Tarm Center West, Frechen Twister, Sande
Novum, Wolfsburg Aladin, Bremen WON, Nürnberg
Apex, Dannenberg AnDante, Paderborn Galaxy, Georgsheil
90°, Mitterteich Jovel, Münster Freudenhaus, München
Kreml Musichall, Sulingen Soundgarden, Duisburg
Vulkano, Aicha v. Wald LKA, Stuttgart Trend, Postbauer-Heng
Rockfabrik, Augsburg Nachtcafe, Darmstadt
Nachtstudios, Münster Plaza, Dingolfing Nightlight, Innernzell
Out of Munich, Markt Schwaben B 2 Dance-House, Mering
Arena Park, Nabburg Mach 1, Nürnberg Domus, Regensburg
QU, Regensburg Rockfabrik, Ludwigsburg
MAXX, Wedel A9, Lenting Empire, Lauingen

International:

Space, Miami, USA The Docks, Toronto, Canada
Rain Nightclub, Las Vegas, USA Boa Redux, Toronto, Canada
Time Super Club, Montreal, Canada Zazou Quebec City, Canada
Space, Ibiza, Spain Liquordome, Halifax, Canada
Guru, Valencia, Spain Borsa Club, Istanbul, Turkey
Cool, Madrid, Spain Pascha, Madrid, Spain Paladium, Malaga, Spain
Art Cafe, Rom, Italy Atica, Madrid, Spain Malibu, Madrid, Spain
L'Arc en Ciel, Quincie, France Silver Disco, Kecskemet, Hungary
Kristal Club, Bukarest, Romania Revival, Alicante, Spain
Manhattan Nightclub, Moskau, Russia Byblos, Iasi, Romania
Escape, Nesebar, Bulgaria Lip Stick, Sofia, Bulgaria Cacao, Sofia, Bulgaria
Wake Up, Cluj - Napoca, Romania La Mania, Constanta, Romania
Swan Lake Night Club, Dongguan, China Sterial Night Club, Hangzhou, China
Xtreme, Fundulea, Romania Millenium Club, Yinchuan, China
Lunar Palace Night Club, Guangzhou, China



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